

Attachment 8, Page 6



FORM PTO-1449 (Modified)

JUN 25 2001

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTATTY. DOCKET NO.
24737-1906BSERIAL NO.
09/704,362APPLICANT
Ramnarayan *et al.*FILING DATE
November 1, 2000GROUP
2857
1631

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EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
<i>JB</i>		0	1	3	5	3	1	6	05/17/01	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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*JB. Brues*DATE CONSIDERED *8/8/02*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT								ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362	
								APPLICANT Ramnarayan <i>et al.</i>	RECEIVED MAR 21 2002 TECH CENTER 1600/2900	
								FILING DATE November 01, 2000		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE	
<i>JB</i>	AA	5	0	3	3	1	5	7	3	07/19/94	Balaji <i>et al.</i>	364	500	12/14/90
	AB	5	6	0	7	9	2	5	0	11/26/96	Balaji <i>et al.</i>	364	496	04/24/95
	AC	5	6	1	1	2	8	9	5	03/18/97	Balaji <i>et al.</i>	364	496	04/21/95
	AD	5	8	0	8	7	5	6	9	09/15/98	Arnaud <i>et al.</i>	367	103	12/04/95
	AE	5	8	3	7	4	6	6	4	11/17/98	Capon <i>et al.</i>	435	6	01/29/97
	AF	5	8	4	6	7	6	3	3	12/08/98	Lee <i>et al.</i>	435	69.1	05/13/94
<i>JB</i>	AG	5	9	1	0	4	7	8	8	06/08/99	Hlavka <i>et al.</i>	514	9	09/20/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	No
<i>JB</i>	AH	0	Depleted	1	3	0	9		09/28/00	PCT				
<i>JB</i>	AI	9	5	0	6	2	9	3	03/02/95	PCT				
<i>JB</i>	AJ	9	5	1	4	0	2	8	05/26/95	PCT				
<i>JB</i>	AK	9	Depleted	3	1	9			07/31/97	PCT				
<i>JB</i>	AL	9	Depleted	4	8	0			07/31/97	PCT				
<i>JB</i>	AM	9	8	0	6	0	4	8	02/12/98	PCT				
<i>JB</i>	AN	9	8	1	3	7	8	1	04/02/98	PCT				
<i>JB</i>	AO	9	8	5	4	6	6	5	12/03/98	PCT				
<i>JB</i>	AP	9	9	0	6	5	9	7	02/11/99	PCT				

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Title: **USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL APPLICATIONS**

FORM PTO-1449 (Modified)

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STATEMENTAPPLICANT
Ramnarayan *et al.*FILING DATE
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>BB</i>	AQ	Abagyan <i>et al.</i> "Biased Probability Monte Carlo Conformational Searches and Electrostatic Calculations for Peptides and Proteins," <i>J. Mol. Biol.</i> <u>235</u> : 983-1002 (1994).
<i>BB</i>	AR	Abdel-Meguid, S.S. <i>et al.</i> "An orally bioavailable HIV-1 protease inhibitor containing an imidazole-derived peptide bond replacement: crystallographic and pharmacokinetic analysis," <i>Biochemistry</i> <u>33</u> (39):11671-11677 (1994)
<i>BB</i>	AS	Altschul <i>et al.</i> "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> <u>215</u> : 403-10 (1990).
<i>BB</i>	AT	Balasubramanian, R. "New type of representation for mapping chain-folding in protein molecules," <i>Proteins</i> <u>6</u> : 856-57 (1977).
<i>BB</i>	AU	Blaney, R. "Molecular modelling in the pharmaceutical industry, <i>Chemistry and Industry. Chemistry and Industry Review</i> <u>23</u> (4):791-4 (1990).
<i>not considered</i>	AV	<i>Biocomputing: Informatics and Genome Projects</i> Smith, D.W., ed. Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
<i>BB</i>	AW	Bohm, G. "New approaches in molecular structure prediction" <i>Biophysical Chemistry</i> <u>59</u> :1-32 (1996)
<i>BB</i>	AX	Bouras <i>et al.</i> "Design, Synthesis, and Evaluation of Conformationally Constrained Tongs, New Inhibitors of HIV-1 Protease Dimerization," <i>J. Med. Chem.</i> <u>42</u> : 957-62 (1999).
<i>BB</i>	AY	Carillo, H. and D. Lipman., "The Multiple Sequence Alignment Problem in Biology," <i>SIAM J. Appl. Math.</i> <u>48</u> (5): 1073-82 (1988).
<i>not considered</i>	AZ	<i>Computational Molecular Biology: Sources and Methods for Sequence Analysis</i> Lesk, A.M., ed. Oxford University Press, New York (1988) <i>no copy provided</i>
<i>BB</i>	BA	Devereux <i>et al.</i> "A comprehensive set of sequence analysis programs for the VAX," <i>nucl. Acids Res.</i> <u>12</u> : 387-95 (1984).
<i>not considered</i>	BB	Dialog #03523908 JICST Acc. No.: 98A0122627 English language description of Habuka, Noriyaki, "Crystal structure of HCV NS3 protease," <i>Jikken Igaku</i> <u>15</u> (19): 2308-13 (1997). <i>no translation or statement of relevance</i>
<i>BB</i>	BC	Dudek <i>et al.</i> "Protein Structure Prediction Using a Combination of Sequence Homology and Global Energy Minimization: II. Energy Functions," <i>Journal Computational Chemistry</i> <u>19</u> : 548-73 (1998).
<i>BB</i>	BD	Goodsell, D.S. and A. J. Olson, "Automated Docking of Substrates to Proteins by Simulated Annealing," <i>Proteins: Structure Function, and Genetics</i> <u>8</u> : 195-202 (1990).

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<i>JB</i>	BE	Gribskov, M. and R.R. Burgess., "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins," <i>Nucl. Acids Res.</i> <u>14</u> (1): 6745-63 (1986).
<i>not considered</i>	BF	<i>Guide to Human Genome Computing</i> Bishop, M., ed. Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
<i>JB</i>	BG	Gulnik <i>et al.</i> "Kinetic Characterization and Cross-Resistance Patterns of HIV-1 Protease Mutants Selected under Drug Pressure," <i>Biochemistry</i> <u>35</u> : 9282-7 (1995).
<i>not considered</i>	BH	Habuka <i>et al.</i> "Crystal Structure of HCV-NS3 protease," <i>Jikken Igaku</i> <u>15</u> (19): 2308-13 (1997). <i>no translation or statement of relevance</i>
<i>JB</i>	BI	Jacobsen <i>et al.</i> "Characterization of Human Immunodeficiency Virus Type 1 Mutants with Decreased Sensitivity to Protease Inhibitor Ro 31-8959," <i>Virology</i> <u>206</u> : 527-34 (1995).
<i>JB</i>	BJ	Kim <i>et al.</i> "Crystal Structure of the Hepatitis C virus Ns3 Protease Domain complexed with a Synthetic NS4A Cofactor Peptide," <i>Cell</i> <u>87</u> : 343-355 (1996).
<i>JB</i>	BK	Klabe <i>et al.</i> "Resistance to HIV Protease Inhibitors: a Comparison of Enzyme Inhibition and Antiviral Potency," <i>Biochemistry</i> <u>37</u> : 8735-42 (1998).
<i>JB</i>	BL	Kohlstaedt <i>et al.</i> "Crystal Structure at 3.5 Angstrom Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> <u>256</u> : 1783-1790 (1992).
	BM	Kroeger <i>et al.</i> "Molecular modeling of HIV-1 reverse transcriptase drug-resistant mutant strains; implications for the mechanism of polymerase action," <i>Protein Engineering</i> <u>10</u> (12): 1379-1383 (1997).
	BN	Kuntz <i>et al.</i> "Structure-Based Strategies for Drug Design and Discovery," <i>Science</i> <u>257</u> : 1078-82 (1992).
	BO	Kuntz <i>et al.</i> "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> <u>161</u> : 269-288 (1982).
	BP	Lambert, M., "Docking Conformationally Flexible Molecules into Protein Binding Sites," in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Marcel Dekker, NY, pp.243-303. (1997).
<i>not considered</i>	BQ	Maschera <i>et al.</i> "Human Immunodeficiency Virus," <i>J. Biol. Chem.</i> <u>271</u> (52): 33231-5 (1996). <i>N/</i>
<i>not considered</i>	BR	<i>Methods in Molecular Biology</i> vol. 24, "Computer Analysis of Sequence Data, Part 1." Griffin, A. and H.G. Griffin, eds. Humana Press, Inc. Totowa, New Jersey (1994). <i>no copy provided</i>

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>BB</i>	BD	Momany <i>et al.</i> "Energy Parameters in Polypeptides. VII. Geometric Parameters, Partial Atomic Charges, Nonbonded Interactions, Hydrogen Bond Interactions, and Intrinsic Torsional Potentials for the Naturally Occurring Amino Acids," <i>The Journal of Physical Chemistry</i> <u>79</u> (22): 2361-81 (1975). <i>Considered</i>
<i>BB</i>	BT	Murcko, M.A., "An Introduction to De Novo Ligand Design," in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Marcel Dekker, NY, pp.305-354. (1997).
	BU	Needleman, S.B. and C.D. Wunsch., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins," <i>J. Mol. Biol.</i> <u>48</u> : 443-53 (1970).
	BV	Nemethy <i>et al.</i> "Energy Parameters in Polypeptides. 10. Improved Geometrical Parameters and Nonbonded Interactions for Use in the EEP3 Algorithm, with Application to Proline-Containing Peptides," <i>J. Phys. Chem.</i> <u>96</u> : 6472-84 (1992).
	BW	Pazhanisamy <i>et al.</i> "Kinetic Characterization of Human Immunodeficiency Virus Type-1 Protease-resistant Variants," <i>J. Biol. Chem.</i> <u>271</u> (30): 17979-85 (1996).
<i>BB</i>	BX	Pearson, W.R. and D.J. Lipman., "Improved tools for biological comparison," <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> : 2444-8 (1988).
<i>BB</i>	BY	<i>QSAR and Drug Design: New Developments and Applications</i> T. Fugita, ed. Elsevier Science B.V. (1995) pp.3-81.
<i>BB</i>	BZ	Ramnarayan <i>et al.</i> "The effect of polarization energy on the free energy perturbation calculation," <i>J. Chem. Phys.</i> <u>92</u> (12): 7057-67 (1990).
<i>not considered</i>	CA	Richter, R., "AIDS drugs found to be effective in world's most common HIV strains" January 20, 1999. <i>no place of publication</i>
<i>BB</i>	CB	Schapira <i>et al.</i> "Prediction of the binding energy for small molecules, peptides, and proteins," <i>J. Mol. Recognition</i> <u>12</u> : 177-90 (1999). <i>Considered</i>
<i>BB</i>	CC	Schwartz, R.M. and M.O. Dayhoff., "Matrices for Detecting Distant Relationships," Chapter 23 of: <i>Atlas of Protein Sequence and Structure</i> Dayhoff, M.O. ed. National Biomedical Research Foundation pp.353-8 (1978).
<i>not considered</i>	CD	<i>Sequence Analysis in Molecular Biology: Treasure Trove or Trivial Pursuit</i> von Heijne, G., ed. Academic Press, Inc. San Diego (1987). <i>copy with profound</i>
<i>BB</i>	CE	Shafer <i>et al.</i> "Human Immunodeficiency Virus reverse Transcriptase and Protease Sequence Database," <i>Nucl. Acids Res.</i> <u>27</u> (1): 348-52 (1999). <i>Considered</i>

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		TECH CENTER 1600/2900	
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JB	CF	Shafer <i>et al.</i> "Identification of Biased Amino Acid Substitution Patterns in Human Immunodeficiency Virus Type 1 Isolates from Patients Treated with Protease Inhibitors," <i>Journal of Virology</i> 73(7): 6197-6202 (1999).
JB	CG	Shenderovich, <i>et al.</i> , "Structural Pharmacogenomic Approach to the Evaluation of Drug Resistant Mutations and HIV-1 Protease", <i>Journal of Clinical Ligand Assay</i> , 24(2):140-144 (2001)
JB	CH	Shoichet, B.K. and I.D. Kuntz, "Protein docking and Complementarity," <i>J. Mol. Biol.</i> 221: 327-46 (1991)
JB	CI	Shoichet <i>et al.</i> "Structure-Based Discovery of Inhibitors of Thymidylate Synthase," <i>Science</i> 259: 1445-50 (1993).
JB	CJ	Smith, T. F. and M. S. Waterman., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> 2: 482-489 (1981).
JB	CK	Stewart <i>et al.</i> "Automated 3D Decking: Inhibitors of α -Chymotrypsin," <i>Medicinal Chemistry Research</i> 1: 439-443 (1992).
JB	CL	Thompson, S.K. <i>et al.</i> "Rational design, synthesis, and crystallographic analysis of a hydroxyethylene-based HIV-1 protease inhibitor containing a heterocyclic P1'-P2' amide bond isoster," <i>Journal of Medicinal Chemistry</i> 37(19):3100-3107 (1994).
JB	CM	Wang and Kollman, "Computational study of protein specificity: The molecular basis of HIV-1 protease drug resistance", <i>PNAS</i> , 98(26):14937-14942 (2001).
JB	CN	Wajner <i>et al.</i> "An All Atom Force Field for Simulations of Proteins and Nucleic Acids," <i>Journal of Computational Chemistry</i> 7(2): 230-52 (1986).

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Attachment 8 Paper 13

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>BB</i>		4	2	0	8	4	7	9	06/17/80	Zuk <i>et al.</i>	435	7	07/14/77
		4	2	2	0	4	5	0	09/02/80	Maggio	23	230	04/05/78
		4	2	3	3	4	0	1	11/11/80	Yoshida <i>et al.</i>	435	7	07/14/77
		4	2	3	3	4	0	2	11/11/80	Maggio <i>et al.</i>	435	7	04/05/78
		4	2	7	7	4	3	7	07/01/81	Maggio	422	61	12/10/79
		4	3	8	5	1	2	6	05/24/83	Chen <i>et al.</i>	436	538	03/19/79
		4	3	9	7	9	5	6	08/09/83	Maggio	436	34	12/10/81
		4	7	8	6	4	7	1	11/22/88	Jones <i>et al.</i>	422	281	10/25/83
		4	7	8	9	6	3	1	12/06/88	Maggio	435	7	02/17/84
		4	8	2	8	9	8	1	05/09/89	Maggio	435	7	08/24/83
		4	8	5	9	6	1	0	08/22/89	Maggio	436	538	09/12/86
		5	0	7	9	1	4	2	01/07/92	Coleman <i>et al.</i>	435	282	01/23/87
		5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
		5	3	3	1	5	7	3	07/19/94	Balaji <i>et al.</i>	364	500	12/14/90
		5	5	7	1	8	2	1	11/05/96	Chan <i>et al.</i>	514	312	05/20/94
		5	5	7	9	2	5	0	11/26/96	Balaji <i>et al.</i>	364	496	04/24/95
		5	6	1	2	8	9	5	03/18/97	Balaji <i>et al.</i>	364	496	04/21/95
*		5	7	1	2	1	4	5	01/27/98	Houghton <i>et al.</i>	435	219	09/06/96
		5	8	0	8	9	6	9	09/15/98	Arnaud <i>et al.</i>	367	103	12/04/95
		5	8	3	7	4	6	4	11/17/98	Capon <i>et al.</i>	435	6	01/29/97
		5	8	4	6	7	6	3	12/08/98	Lee <i>et al.</i>	435	69.1	05/13/94
		5	9	1	0	4	7	8	06/08/99	Hlavka <i>et al.</i>	514	9	09/20/96

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<i>BS</i>		0	0	5	7	3	0	9	09/28/00	PCT	—	—
<i>BS</i>		9	7	2	7	3	1	9	07/31/97	PCT	—	—
<i>BS</i>		9	7	2	7	4	8	0	07/31/97	PCT	—	—
<i>BS</i>		9	9	0	6	5	9	7	02/11/99	PCT	—	—

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>not considered</i>	/	3D QSAR in Drug Design-Kubinyi, H (ed.) Kluwer Academic Publishers (1993). <i>no copy provided</i>
<i>BS</i>	/	Abagyan <i>et al.</i> Biased Probability Monte Carlo Conformational Searches and Electrostatic Calculations for Peptides and Proteins, <i>J. Mol. Biol.</i> 235 : 983-1002 (1994).
	/	Abagyan <i>et al.</i> Protein structure prediction by global energy optimization, <i>Comput. Simul. Biomol. Syst.</i> 3 :363-94 (1997).
*		Ajay <i>et al.</i> , Computational Methods to Predict Binding Free-Energy in Ligand-Receptor Complexes, <i>Journal of Medicinal Chemistry</i> , 38 (26):4953-4967 (1995).
	/	Altschul, Gap costs for multiple sequence alignment, <i>J. Theor. Biol.</i> , 138 :297-309 (1989)
	/	Altschul and Lipman, Trees, stars and multiple biological sequence alignment, <i>SIAM J. Appl. Math.</i> , 49 :197-209 (1989)
	/	Altschul, Leaf pairs and tree dissections, <i>SIAM J. Discrete Math.</i> , 2 :293-299 (1989)
	/	Altschul <i>et al.</i> , Weights for data related by a tree, <i>J. Molec. Biol.</i> , 207 :647-653 (1989)
	/	Altschul <i>et al.</i> Basic Local Alignment Search Tool, <i>J. Mol. Biol.</i> 215 : 403-10 (1990).
*		Balaji <i>et al.</i> , Conformational studies on model peptides with 1-aminocyclopropane 1-carboxylic acid residues, <i>Pept. Res.</i> 7 (2):60-71 (1994).
*		Balaji <i>et al.</i> , Conformational studies on model peptides with 1-aminocyclobutane 1-carboxylic acid residues, <i>Pept. Res.</i> 8 (3):178-86 (1995).
*		Balasubramaniam <i>et al.</i> , [D-TRP ³²]Neuropeptide Y: A Competitive Antagonist of NPY in Rat Hypothalamus, <i>J. Med. Chem.</i> 37 (6):811-815 (1994).
	/	Balasubramanian, R., New type of representation for mapping chain-folding in protein molecules, <i>Nature</i> 266 : 856-57 (1977).
	/	Bernstein <i>et al.</i> , The protein data bank: a computer-based archival file for macromolecule structures, <i>J. Mol. Biol.</i> , 112 :535-542 (1977)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>not considered</i>	<i>✓</i>	<i>Biocomputing: Informatics and Genome Projects</i> , Smith, D.W., ed., Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
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